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FINAL REPORT

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NASA grant NAG2-497 "Far Infrared Photometry and Mapping of Virgo Cluster

Galaxies"

Award Period:

February - October 1988

Award Amount:

Principal Investigator: Gillian R. Knapp

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Date:

May 3 1995

Report

The research for which this grant was awarded was to measure the distribution of 160 micron radiation and the total 160 micron flux density for 30 spiral galaxies in the Virgo Cluster using the Yerkes 32 channel bolometer array aboard the Kuiper Airborne Observatory. The award supported travel to NASA-Ames for Knapp and Stark to participate in two KAO flights in April 1988.

Several of the Virgo Cluster galaxies were observed during part of these two flights, but no useful data were obtained due to equipment difficulties. The trip was indirectly useful however in beginning a collaboration which led to KAO observations of long-wavelength emission from interstellar dust in several elliptical galaxies, and we have a paper in preparation: "The Submillimeter Continuum Spectrum and Interstellar Dust Content of Elliptical Galaxies" by G. R. Knapp, M. P. Rupen, D. A. Harper and J. F. Lees.

> (NASA-CR-197778) FAR INFRARED PHOTOMETRY AND MAPPING OF VIRGO CLUSTER GALAXIES Final Report (Princeton Univ.) 1 p

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